

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C01B37/00 C01B39/08 B01J29/89 C07B41/00 C07C29/00

PTO 02 SEP 2004

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01B B01J C07B C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WU PENG ET AL: "A Novel Titanosilicate with MWW Structure. I. Hydrothermal Synthesis, Elimination of Extraframework Titanium, and Characterizations" JOURNAL OF PHYSICAL CHEMISTRY. B, MATERIALS, SURFACES, INTERFACES AND BIOPHYSICAL, WASHINGTON, DC, US, vol. 105, no. 15, 15 April 2001 (2001-04-15), pages 2897-2905, XP002204295 ISSN: 1089-5647	1-7
A	"Experimental section"; "Removal of B and extraframework Ti by acid treatment"; "IR study on Ti species" figures 8B,10; table 2 --- -/--	8-30

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

15 July 2003

Date of mailing of the international search report

25/07/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rhodes, K

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WU P ET AL: "A Novel Titanosilicate with MWW Structure: II. Catalytic Properties in the Selective Oxidation of Alkenes" JOURNAL OF CATALYSIS, ACADEMIC PRESS, DULUTH, MN, US, vol. 202, no. 2, 10 September 2001 (2001-09-10), pages 245-255, XP004432448 ISSN: 0021-9517	28-34
A	page 245-247 tables 1,2	1-27
A	US 5 869 706 A (DARTT CHRISTOPHER B ET AL) 9 February 1999 (1999-02-09) column 3, line 12 -column 4, line 54 examples claims 4,7	8-27
A	US 6 114 551 A (SANTIESTEBAN JOSE G ET AL) 5 September 2000 (2000-09-05) the whole document	1-34
P,A	WO 02 28774 A (OGUCHI WATARU ;WU PENG (JP); SHOWA DENKO KK (JP); TATSUMI TAKASHI) 11 April 2002 (2002-04-11) claims 1-14,19-30 page 6, line 22 -page 7, line 28 page 13, line 15 -page 14, line 22 page 20, line 23-30 examples	1-34

INTERNATIONAL SEARCH REPORT

on patent family members

International Application No

PCT/ 03/02154

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5869706	A	09-02-1999	AU	1206297 A	28-07-1997
			WO	9724286 A1	10-07-1997
US 6114551	A	05-09-2000	AU	7844900 A	10-05-2001
			WO	0124926 A1	12-04-2001
WO 0228774	A	11-04-2002	JP	2002102709 A	09-04-2002
			AU	9029501 A	15-04-2002
			CA	2423666 A1	11-04-2002
			EP	1324948 A2	09-07-2003
			WO	0228774 A2	11-04-2002
			US	2003040649 A1	27-02-2003